



Propellers


COMP | ELITE | SPORT



Redefining Performance

Product performance and our people make Mercury Propellers the world leader in outboard and sterndrive propeller design and production. It's not an accident that Mercury Propellers have continually beaten the competition in top speed and acceleration. Our props are designed by a team of dedicated engineers with more than 160 years of propeller design experience – experience that enables us to design propellers that are years ahead of our competitors' products. But it doesn't stop there – our propellers are manufactured at our dedicated propeller casting facility in Fond du Lac, Wisconsin by a group of employees devoted to producing the best-performing propellers in the world, transforming molten metal into the highest-quality marine propellers.












Performance starts with our people

The end result is not just a propeller. The passion from every person involved with producing a propeller is stimulating. This passion has driven Mercury to be the world's bestselling propeller manufacturer.

***“We’re passionate
about quality.”***

*Scott Brandsma,
Propeller Inspector*



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THE MERCURY ADVANTAGE

Our experience and expertise – along with proprietary technologies such as Flo-Torq[®], the X7[®] alloy, and PVS[®] (Performance Vent System) – give Mercury props a true competitive advantage.



X7 Alloy

A revolutionary proprietary alloy from Mercury that shatters the rules of propeller design. X7 is 30 percent stronger and four times more durable than conventional stainless steel, allowing prop designs that are impossible with conventional stainless steel.



Merccalloy®

An aluminum alloy so revolutionary – it's patented. Merccalloy is specially designed for the die-casting process, helping produce the highest quality, porosity-free propeller castings that result in increased strength and ductility.



Reflex Hub System

The Reflex's innovative design relies on the flexible nylon fingers, constructed of Noryl GTX® – these fingers work together with the advanced composite Delrin hub to flex up to eight degrees. This flexing action of the fingers allows the Reflex hub to quiet annoying rattle and vibration that can be present while idling at low rpm.



PVS® Plugs

PVS (Performance Vent System) is an exclusive Mercury innovation that allows you to custom-tune the venting of your propeller – this gives you the power to customize the performance of your propeller to match your engine. Just by varying the size of the exhaust hole, you can improve your performance. This is a system you can only get with select Mercury propellers.

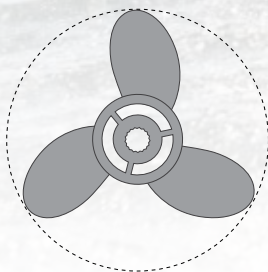


Flo-Torq® Hub System

The Flo-Torq II is specially designed to cushion and protect the drivetrain from most impacts. Plus, just like all Mercury® engines, the Flo-Torq II System also provides unmatched corrosion protection – giving you peace of mind and the freedom to make the most of your time on the water.

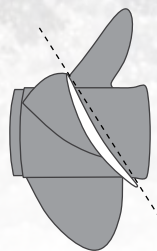
Make your boat come alive!

Whether you're a daily boater using the Vengeance® for consistent performance or a weekend boater using the SpitFire® to create family memories, the propeller is the key to unlocking your boat's full potential. Thus, understanding the basic science behind propeller design and how Mercury excels versus the competition will help you understand its importance – and help you choose the Mercury propeller that makes your boat come alive!



DIAMETER

Diameter is an integral part to the propeller design and must be appropriately matched with the pitch, rake and cup of the propeller to provide maximum thrust and mid-range fuel economy. Mercury's engineering team uses proprietary methods to combine these propeller features which allows Mercury to offer the perfect propeller for any boating application.



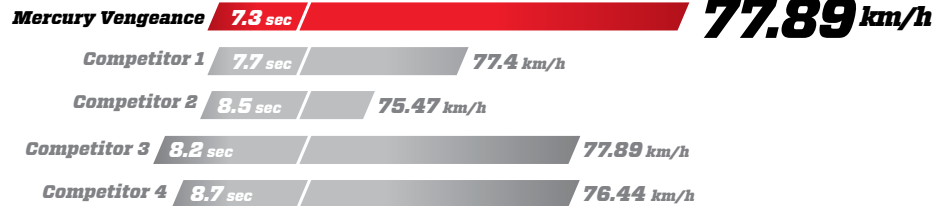
PITCH

Mercury understands that having the correct pitch is the most important factor to your boat's performance. Choosing the correct pitch is critical, as it results in your engine operating within the required rpm range, thus maximizing performance.

Vengeance® The consistent performer



Acceleration 0-32 km/h / Top Speed

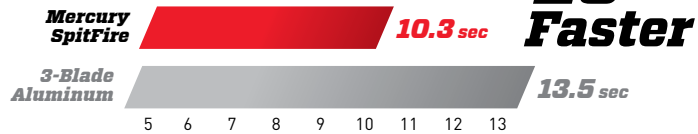


All runs measured using a Bayliner 2050 with 4.3L MPI, 1.47 ratio under same conditions. Acceleration time is from 0-32 km/h.

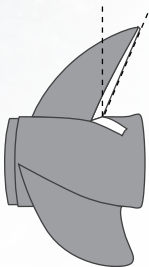
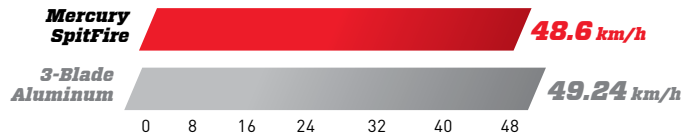
SpitFire® The first performance aluminum propeller



Acceleration 0-32 km/h

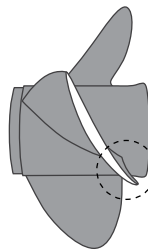


Top Speed



RAKE

Rake is the angle of the blade from root to blade tip. This angle allows Mercury's engineers to alter your boat's ride and lift as well as provide superior holding in rough water and high drive heights. Mercury is a class leader in engineering rake into our propeller design.



CUP

Cup is the small curve or lip on the trailing edge of the propeller blade. Cup allows the propeller to grab hold of the water, providing superior handling in rough water and tight turns. Cup is a vital component to the propeller, and precise measurements must be attained.



Fuel Economy and Performance

The Enertia ECO propeller is an innovative product specifically designed to provide optimal fuel economy and performance at cruising speed, the engine rpm range where boaters spend most of their time. To maximize fuel economy and performance at cruising speeds, Mercury engineers designed the new propeller with a large 16-in. diameter, extra-large blade area and a high progressive rake for increased bow lift. This additional lift provided by the Enertia ECO results in significant gains in fuel economy while also improving speed and acceleration.

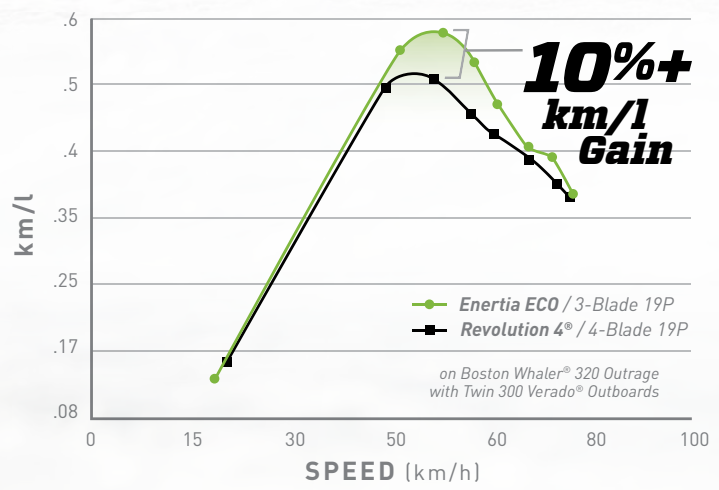
Enertia ECO Advantages

- Up to 7% savings on fuel costs**
- Ability to travel farther with the same amount of fuel*
- No compromise in performance*
- Patent-pending design*
- Made with Mercury's X7 alloy*

*Based on an average duty cycle at 95 hours of running time in 12 months



Enertia ECO Fuel Savings







Mercury Propellers

Comp Series



Unmatched performance. Mercury's Comp Series propellers stand alone in the market as the top-performing propellers in acceleration, top speed and fuel economy.

Elite Series



Where performance meets reputation. Mercury's Elite Series propellers provide class-leading durability and performance. These are our best-selling designs.

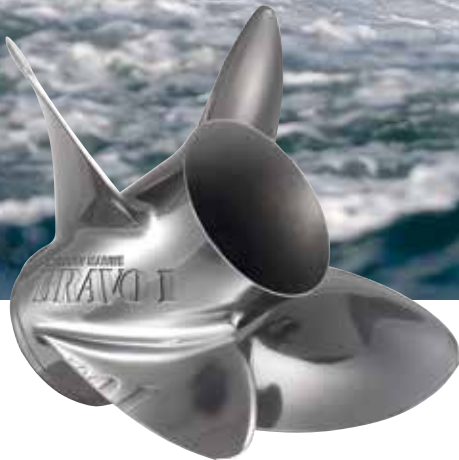
Sport Series



Perfect balance of performance and value. Mercury's Sport Series propellers are proven designs for boaters ready to enhance the performance of their boat.

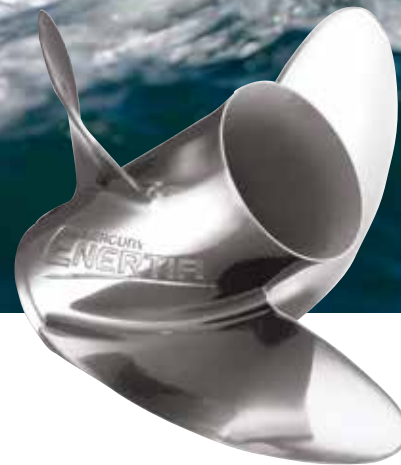
Comp Series

Unmatched performance. Mercury's Comp Series propellers stand alone in the market as the top-performing propellers in acceleration, top speed and fuel economy.



BRAVO I®

- The world's best-selling high-performance propeller
- Ideal fit for high-speed, high-drive-height outboard and Bravo One® sterndrive applications
- Provides outstanding performance for all 'go-fast' boats, including catamarans and stepped hulls



ENERZIA®

- Mercury's first propeller to utilize the added strength and durability of Mercury's X7 alloy
- Improves both top speed and acceleration on center consoles, high-horsepower pontoons and sterndrive runabouts
- Fits 135hp and above outboards and Alpha One® and Bravo One® sterndrives



ENERGIA ECO

- Designed for heavy, high-horsepower boats where fuel economy at cruise is top priority
- Large-diameter propeller with high-progressive rake providing extra bow lift, resulting in up to 10% fuel economy gains at cruising speeds

"In two-to-three foot seas, the Energia ECO "livened" up my boat's already great performance even more, and cut down fuel consumption by a minimum of 10 percent. At cruising speed, I was saving as much as 12 percent of my fuel consumption."

George Poveromo,
Professional Angler



Comp Series

Unmatched performance. Mercury's Comp Series propellers stand alone in the market as the top-performing propellers in acceleration, top speed and fuel economy.



**“Quality is everything
at Mercury - from
start to finish.”**

*Sam Thuerwacher,
Propeller Finisher*



FURY®

- Mercury's revolutionary tournament bass propeller
- Comprised of Mercury's X7 alloy with a reduced diameter and large blade area that measurably improves acceleration and top speed
- Designed for class-leading performance for all bass, bay and flats boats running 200hp and above engines



MAXIMUS®

- Ultimate high-performance five-blade propeller
- Suited to power step-v hulls, v-bottoms and cats that run big block H.O., 8.2 MAG H.O. or Mercury Racing engines that require high drive heights
- Couple with Bravo One or Bravo One XR drives

REVOLUTION 4®

- Aggressive four-blade design provides outstanding holding, hole shot and improved midrange performance
- Ideal for 135hp and above outboard-powered walleye boats, center consoles and sterndrive-powered deck and sport boats

Elite Series

Where performance meets reputation.
Mercury's Elite Series propellers provide class-leading durability and performance. These are our best-selling designs.



BRAVO TWO®

- Extreme blade area for maximum thrust
- Stout design provides excellent maneuverability and better holding in turns
- Pair exclusively with Bravo Two® sterndrives
- Available in aluminum or stainless steel



BRAVO THREE®

- Amazing contra-rotating twin propeller design
- The front four-blade and rear three-blade provides the combination of speed, acceleration, holding and fuel economy
- Pair exclusively with Bravo Three® sterndrives



HIGH FIVE®

- Five-blade stainless steel design offers ultimate hole shot and handling
- Perfect propeller for supreme tow sport performance
- Fits 135hp and above outboards and Alpha One® sterndrives

MIRAGE® PLUS

- Best-selling high-horsepower propeller in the world
- Large diameter design works well across a wide range of applications
- Fits 135hp and above outboards and V8 sterndrives

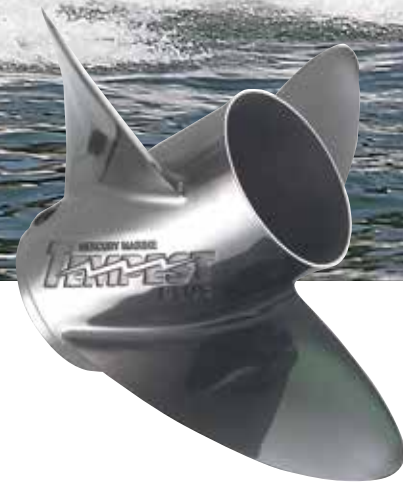
Elite Series

*Where performance meets reputation.
Mercury's Elite Series propellers provide class-leading durability and performance. These are our best-selling designs.*



SPITFIRE®

- Mercury's state-of-the-art aluminum propeller provides three-blade speed with four-blade holding and acceleration
- Aggressive four-blade design with high rake angles and added cup for tenacious holding
- Fits 25 - 250hp outboards and Alpha One sterndrives



TEMPEST® PLUS

- Designed to make big boats go fast
- Higher rake and bigger cup provide better handling and lift on big V6 outboard-powered boats
- Ideal for 135hp and above outboard-powered bass and tournament walleye boats 5 meters and longer



TROPHY® PLUS

- Designed to deliver exceptional bow lift for bass and flats boats running at high drive heights
- Unique design allows for venting both through and over the hub, providing quick holeshot and stable handling at high speeds and tight turns
- Fits 135hp and above outboards



TROPHY® SPORT

- High-performance propeller for bay and flats boats utilizing 40 - 60hp outboards
- Four-blade design generates incredible hole shot and holding when compared to a three-blade propeller

Sport Series

Perfect balance of performance and value. Mercury's Sport Series propellers are proven designs for boaters ready to enhance the performance of their boat.



BLACK MAX®

- World's best selling aluminum propeller
- Perfect combination of performance, durability and value
- Fits outboards 2.5 - 250hp and Alpha One sterndrives



LASER II

- Perfect compliment to bass boats and aluminum deep-v fishing boats where speed is the priority
- Aggressive rake angles provide excellent bow lift with vented hub for impressive acceleration
- Fits 75 - 125hp outboards



VENGEANCE®

- All-purpose stainless steel propeller offers improved performance and durability over aluminum propellers
- One-piece cast steel for exceptional strength and durability
- Fits 20 - 250hp outboards and Alpha One sterndrives



VENSURA®

- Stainless steel four-blade design delivers good acceleration and holding power
- Provides great bow lift for rough water performance
- Fits 135hp and above outboards and Alpha One sterndrives

Application Chart

Comp Series

		Bravo I	Enertia	Enertia Eco	Fury	Maximus	Revolution 4	Bravo Two	Bravo Three
SPECIFICATIONS	Available Pitches	22, 24, 26, 28, 30, 32, 34, 36	11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22	17, 19, 21, 23	24, 25, 26, 27	24, 26, 28, 30, 32, 34	15, 17, 19, 21, 23, 25	11, 13, 15, 17, 19, 21, 23, 25	19, 21, 22.5, 24, 26, 28, 30
	Material	Stainless Steel	X7	X7	X7	Stainless Steel	Stainless Steel	Aluminum	Stainless Steel
	Rotation	LH, RH	LH, RH	LH, RH	RH	LH, RH	LH, RH	LH, RH	LH, RH
	PVS		■	■	■	■	■		
	Number of Blades	4	3	3	3	5	4	3	3, 4
APPLICATIONS	Aluminum		■	■			■		
	Bass	■			■				
	Twin Console		■	■			■		■
	Catamaran	■		■					
	Open Center Console	■	■	■					
	Cruiser		■	■				■	■
	Sundeck		■						
	Fish-n-ski		■				■		
	Houseboat		■					■	
	Inflatable								
	Fishing / Utility	■		■	■	■		■	
	Multi-species	■	■	■				■	
	Pilot House	■	■	■				■	
	Pontoon		■					■	■
	Day Cruiser		■					■	■
	Runabout - Open Bow		■						■
	Sportboat / Performance	■					■	■	■
Ski							■	■	
Workboat		■					■	■	

Elite Series

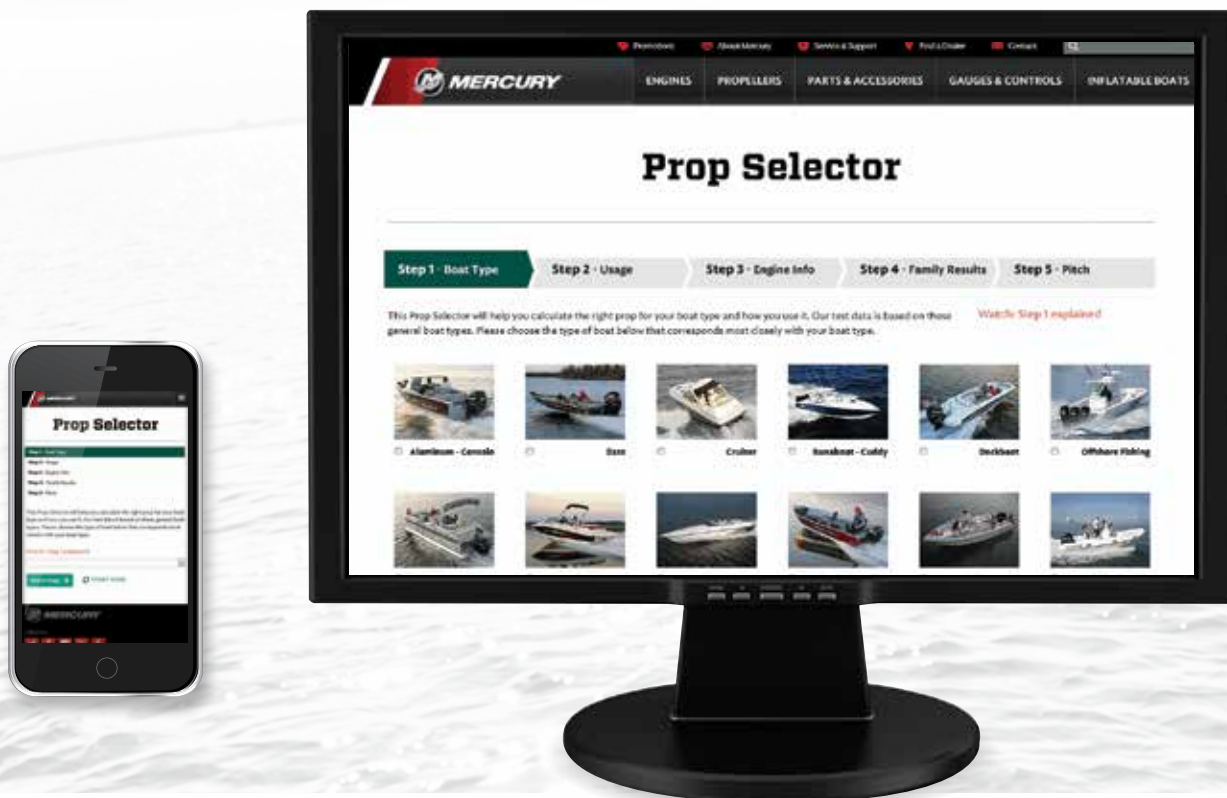
Sport Series

High Five	Mirage Plus	Spitfire	Tempest Plus	Trophy Plus	Trophy Sport	Black Max	Laser II	Vengeance	Vensura
17, 19, 21, 23, 25	13, 15, 17, 18, 19, 21, 23, 25, 27, 29	9.5, 10, 11, 12, 13, 14, 15, 17, 19, 21, 23	17, 19, 21, 22, 23, 24, 25, 26, 27, 29	17, 19, 21, 23, 24, 25, 26, 27, 28	12, 13, 14, 15	5.5, 6, 6.5, 7, 7.5, 8, 8.4, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13, 14, 14.5, 15, 16, 17, 18, 19, 21, 23, 25	19, 21, 23, 25	10, 12, 14, 15, 16, 17, 18, 19, 21, 23	17, 19, 21, 23
Stainless Steel	Stainless Steel	Aluminum	Stainless Steel	Stainless Steel	Stainless Steel	Aluminum	Stainless Steel	Stainless Steel	Stainless Steel
RH	LH, RH	RH	LH, RH	RH	RH	RH	LH, RH	RH	LH, RH
■	■	■	■	■					■
5	3	4	3	4	4	3	3	3	4
■		■	■	■	■	■	■	■	■
■		■	■	■	■	■	■	■	
■	■	■		■		■	■	■	■
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Find the perfect prop

Boat performance is equal parts power and propeller. With our propeller finder, you'll be able to narrow your search for the most ideal prop in just four simple steps. Get started now, and once you've entered your specifications, we'll provide results based upon our extensive test data.

mercurymarine.com



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